



SUGAR APPLICATION



SIDE DOOR ACCESS GYRATORY
SCREENS FOR SCREENING
SUGAR AT SITE



MATERIAL FEATURES

For the sugar, they are always free flow, the major size is under 1.2mm, some customer may need the sugar less than 0.8mm, or less than 2.5mm, always there are some <0.2mm fines material in the sugar, the size sugar need to be removed.

SCREENING DATA

In sugar industrial application, there are three function, grading, scalping and fines removing.

For the screener scalping, our screener have huge capacity, the on-size sugar particle will pass through the mesh aperture in short time, and when for fines removing, the capacity will less than scalping, the on-size sugar flow on the screener surface, the under-size sugar pass thought the mesh aperture, the self-cleaning ball will jump up and down to clean the mesh surface, because in this stage, the mesh aperture size always very thin, always 40mesh to 70mesh, so we need to do the mesh maintenance work when mesh blockage or broken, so the MHG side doors access screener could meet the request because we could move out the mesh from two side in short time.

When for sugar grading, the mesh size will be variable, but if adopt MHG drawer model screener, we could put your request mesh into the screener box in short time.

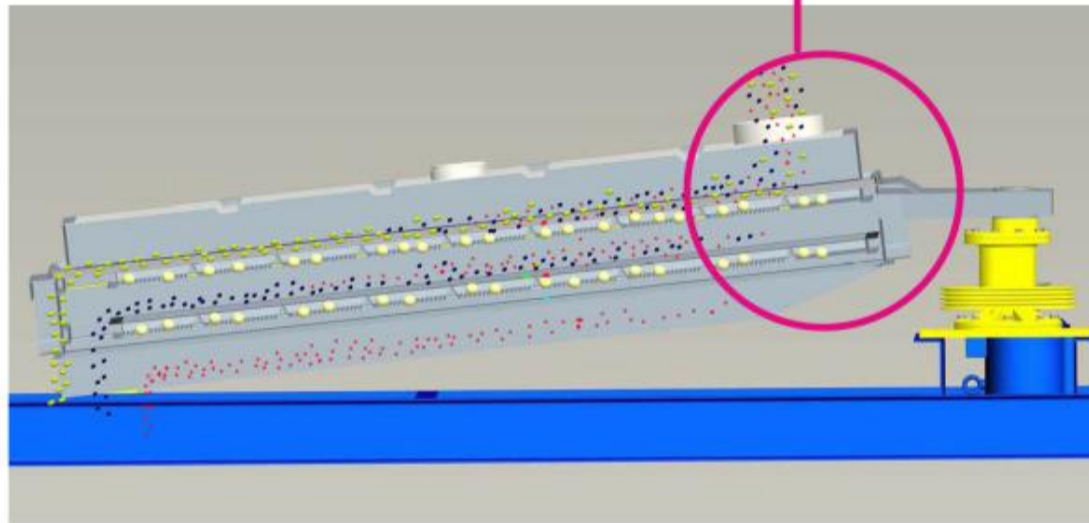
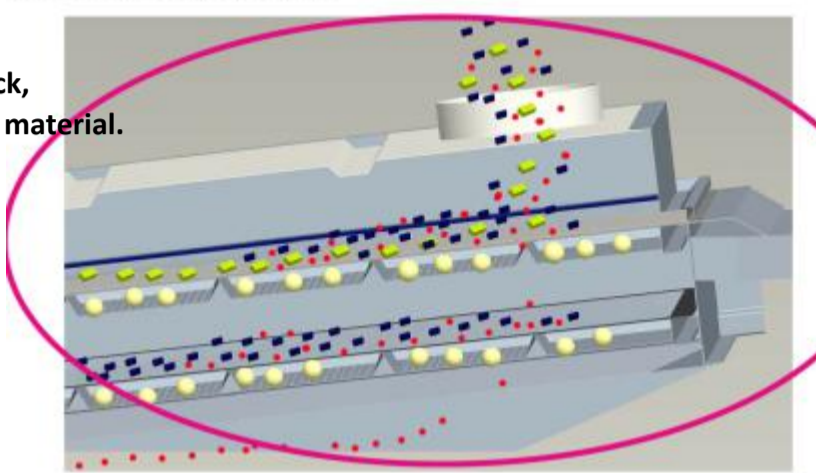


Working Principle

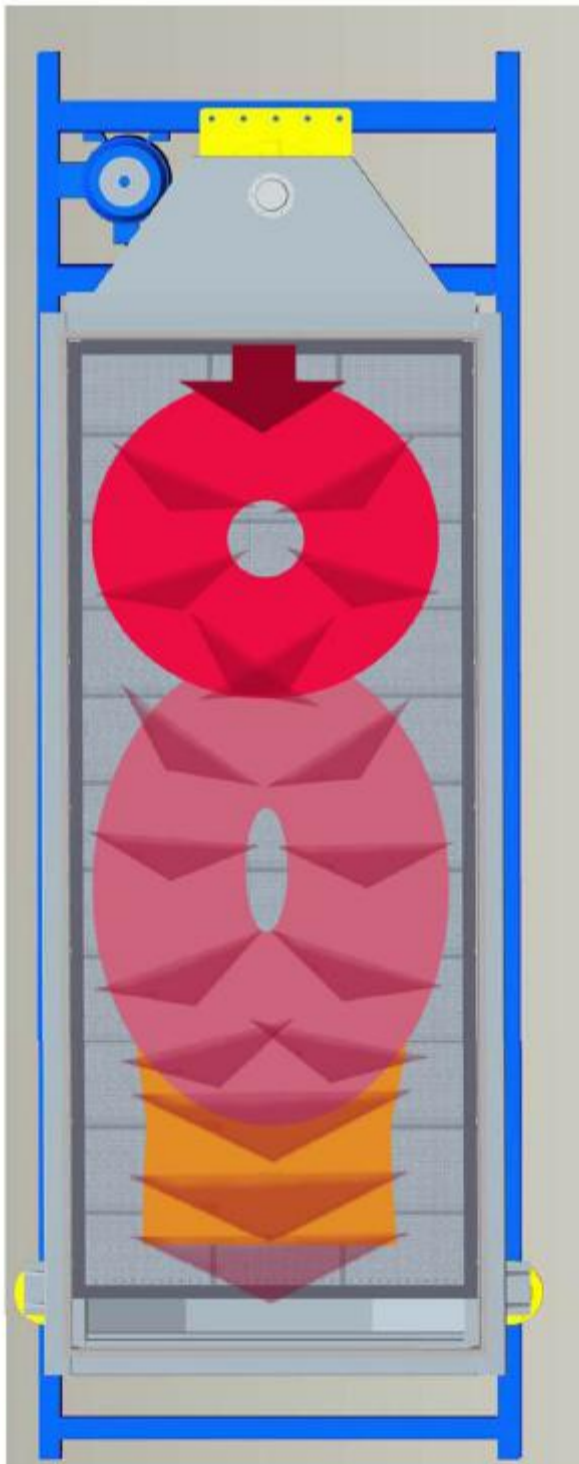
M series Gyratory Screener is one kind precision screening equipment, it could screen particle shape material, powder material and irregularly shape material. Compare with other heavy duty screener, its screening precision is higher , compare with other precision screening equipment, its capacity is larger. So our M serial Gyratory screener could meet the specific on large capacity and high screening precision.

The pictures show how the gyratory screener work with two layer mesh deck, The screener could separate the material into three size specification scope material. Our M series gyratory screener could be with 1-5 layer mesh deck.

Remark: Because the Screener deck with low slop angle ,so the projection size of the screener mesh aperture to ground is similar with the fact screen mesh aperture size, so the screened material could meet customer's request more.



Material flow motion path



When material fall into the inlet of the M series gyratory screener, the baffle and distributor will distribute the material materials first,the material movement is the reciprocating gyratory motion

Stage 1 When the material fall onto the gyratory screener deck, the material will disperse soon until the material bed will cover screen mesh along the screen width.

Stage 2 The material bed thickness is suitable for screening after first stage material distribution, and the material movement path become the elliptical from circle, the most material screening work will be done in this stage.

Stage 3 After first two stage screening, the material screening work almost finished in this stage, the material movement path become linear from elliptical, the movement path distance will be short and the material will flow out from the outlet soon

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MH Gyrotory Screener Installation Method



MHG series gyrotory screens is similar with M serial gyrotory screen such as the screening principle, screening efficiency and application, just except the screen deck structure.

In some customer application technical process, the customer need always renew the screens mesh, if the renew time for screening mesh is too long, or it is very difficult for replacing the screen mesh, it will take too much time for stopping the equipment work if replacing mesh for several times, so it will affect the production output at last, the MHG series gyrotory screens is for solving above problem, and the MHG gyrotory screen has following features:



MHG Gyrotory Screen waiting for delivery in workshop



MHG Gyrotory Screen at Sugar Screening site



MHG Gyrotory Screener Major Structure

Screener Deck



The side door gyrotory screener deck is one combination structure that consist of screener mesh , self-cleaning ball and support deck frame. The screener mesh be fixed on screener ball tray directly.

Mesh changing



The mesh fasten method

The mesh sheet is one independent one parts, it put on the ball tray

So the customer is easy to divide the mesh sheet and the ball tray, it save the mesh changing time

Replaceable Seal



Replaceable seal of the screener deck

The seal structure is one key factor for guaranteeing the screening precision, The MH model gyrotory screener adopt replaceable model seal, it is easy to replace the seal when the seal worn-out

And the seal is endless model after glue, so it avoid the different layer material mix together

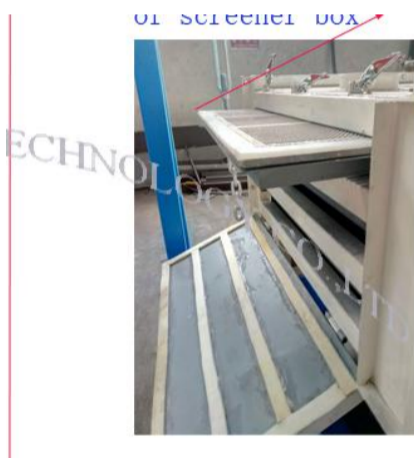


How to do the mesh sheet changing easily



1. Open the side access door

This step is easy, just open the clamp then open side access door



2. Pull out mesh sheet and ball tray

Release the fasten device of the ball tray, then pull out 1/2 to 1/3 width of the ball tray, do not need the whole ball tray and mesh structure out the screener box, the other 2/3 of the mesh deck+ ball tray still in the screener box



3. Pull out the whole mesh sheet

Please pull out the whole mesh sheet structure out from the screener box, and do not need move the below ball tray

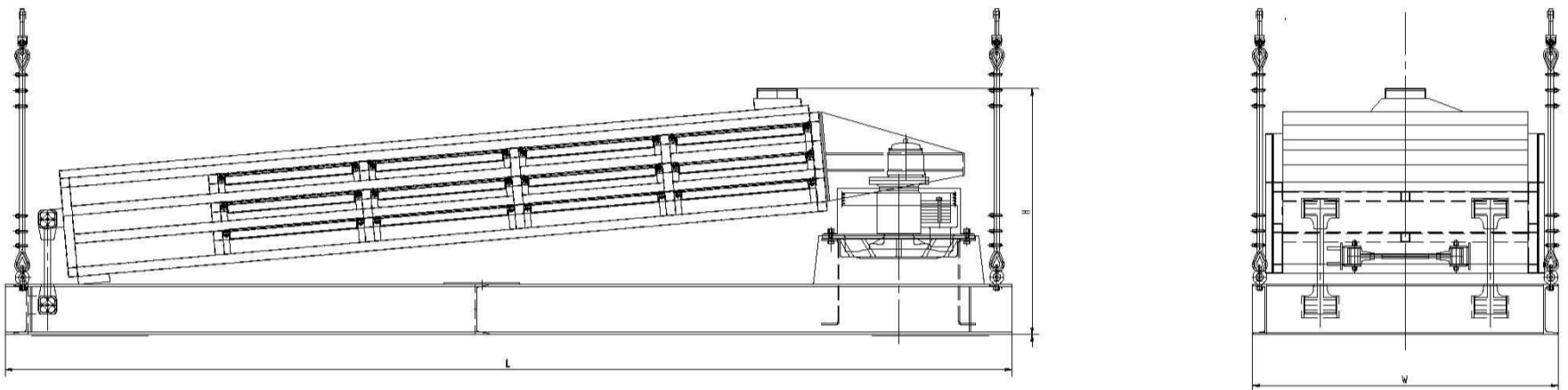


4. Put one new mesh sheet on the ball tray

Put one new mesh sheet on the ball tray and push the ball tray and mesh back into the screener box, then fasten the ball tray and close the side access door as one drawer, the mesh changing work finished



Dimension and Parameter



MHG Gyratory Screen Parameter									
Layer No.	Model	Requency	Storke	Mesh Area	Power	Outline (mm)			Equipment weight
		r/min	mm	M ²	kW	(L)	(W)	(H)	kg
1	MHG-B20	220-260	60	2	2.2	4120	1870	2100	2463
	MHG-C24	220-260	60	2.88	3	4614	2080	2100	2958
	MHG-D30R	200-220	80	4.5	4	5530	2370	2200	3316
	MHG-E42	180-200	88	7.56	6.112	5612	2690	2200	4053
	MHG-F48	180-200	88	9.6	5.5	7198	2940	2300	4335
2	MHG-TB20	220-260	60	2	3	4120	1880	2100	2610
	MHG-TC24	220-260	60	2.88	4	4614	2080	2100	3177
	MHG-TD30R	200-220	80	4.5	4	5530	2370	2200	3494
	MHG-TE42	180-200	88	7.56	5.5	6112	2690	2200	4413
	MHG-TF48	180-200	88	9.6	7.5	6998	2940	2300	4756
3	MHG-SC24	200-220	80	2.88	4	4614	2080	2200	3395
	MHG-SD30R	180-200	88	4.5	5.5	5530	2370	2200	3872
	MHG-SE42	180-200	88	7.56	7.5	6112	2690	2200	4786
	MHG-SF48	180-200	88	9.6	11	7198	2940	2300	5337